TECHNICAL EVALUATION MEETING OF EQUIPMENTS IN CPE INSTITUTE OF CARDIOLOGY MULATAN ON 03-02-2016		
COMPARATIVE STATEMENT FOR I.A.B.P MACHINE (Intra-Aortic Balloon Pump) With Transportation facility, Part-A: Qty:02		
Sr#	Sepecifications	M/S Mediland Pakistan Lahore
	Model	Cardiosave Hybrid
	Make	Datascope
	Country of Origin: USA / Europe / Japan	USA
	Authorization	Yes
	Certification: (FDA (510K) / CE / JIS)	FDA/CE
	Warranty: 5 Years Comprehensive with parts & spare including backup services	5 Years
1	System should have latest technology with Touch screen and Keypad monitoring facility (Dual Control).	TE Compliance
2	Ability to customize keys that are displayed on touch panel /Key pad.	TE Compliance
3	Display screen Size: 12" or more for brighter and very good visibility in lighting condition.	TE Compliance
4	Locking function of keypad display including automatic un-lock in case of any alarm.	TE Compliance
5	Pneumatic Module including compressor (Safety disk and fuming system) with active pressure and vacuum should be built inside the system to avoid knocked down phenomena.	TE Compliance
6	Fast pneumatic to provide accurate and reliable ventricular support enhancing augmentation & improved afterload reduction preferably compressor based system for better drive gas shuttle speed.	TE Compliance
7	Condensation Removal System for complete automatic and continuous condensate removal without Water trap and maintenance free.	TE Compliance
8	System should be capable to measures the catheter and tubing volume, then calculates a targeted fill pressure based on that volume.	TE Compliance
9	Removal of vapor, no water collection, no need to manually remove a collection bottle - utilizing a Nafion or equivalent System that continually removes water vapor with each inflate / deflate cycle.	TE Compliance
10	Regular complete and automatic auto fill processes to ensure optimum Helium.	TE Compliance
11	System should have peripheral vascular Doppler with 8 MHz or more non-directional probe for detecting limb ischemia and detect the peripheral arterial perfusion perfusion which should be fixed/teethed into main equipment.	TE Compliance
12	ECG cable compatibility (AHA / IEC) and automatic detection what cable is used. Possibility to display both standards (AHA / IEC) and equivalent.	TE Compliance
13	ECG lead fault management: Ability to pinpoint/display the electrode(s) that faulted	TE Compliance

14	Faulted electrode to be displayed in monitor screen next to ECG waveform and ECG lead indication.	TE Compliance
15	Pressure input /Output, Color coded design that only allows the correct Pressure cable to be connected.	TE Compliance
16	Option to provide ECG/Low-level BP signal output (Fiber-optic and conventional BP signal) to Bedside Monitor incl. option to zero this signal	TE Compliance
17	Automatic in-vivo calibration at start up and re-calibration every 2h or sooner should patients or environmental conditions change.	TE Compliance
18	User Options to Fine-Tune Deflation Timing within Auto Operation Mode.	TE Compliance
19	Help Screens should be available for all alarms. Alarms/messages are displayed in order of priority so user can select which one to visualize	TE Compliance
20	For safety reasons: Alarm Audio can be only "Paused" for max. 60 min and cannot overridden (except for Catheter alarms).	TE Compliance
21	Blood detection for early indication of balloon coming into lumen while Balloon leak.	TE Compliance
22	System should have automatic Altitude correction to make it settle for used during shifting of patient from ground to any floor or air operation.	TE Compliance
23	Transportable, smaller and lighter IABP system with Built-in. Minimum 3 Hours of Lithium Ion Battery Backup.	TE Compliance
24	Option to change battery while IABP continues to operate for 24/7 operation	TE Compliance
25	External battery charger option should be available to charge back up batteries.	TE Compliance
26	Self-Retractable AC Power Cord included	TE Compliance
27	System should be compact in such a way that helium cylinder and other tubing's and fittings are positioned inside the system, so that it does not occupy enough space and easy to maneuver. Built in as per manufacturer standard to ensure maximum safety for patient.	TE Compliance
28	Helium cylinder External should be enough for up to 80 days continues operation in hospital mode.	TE Compliance
29	Built in helium internal reservoir of 1.5 Liter inside the console enough for 3 days continues operation during transportation.	TE Compliance
30	System trainer simulator for educational purpose and for teaching purpose should be available with system.	TE Compliance
31	In-Built Comprehensive service diagnostics to help clinician to identify the fault immediately.	TE Compliance
32	System should be capable to support 7fr, 40cc catheter and small catheter sizes for small adult/Peads patient usage.	TE Compliance
33	Helium Refiling Station (01)	TE Compliance
34	Battery Charging Station (01)	TE Compliance
35	Transport Mounting Plate (01)	TE Compliance
36	Trainer Simulator (01)	TE Compliance
37	Vascular Doppler (01) each	TE Compliance
38	Pressure Transducer cable (01) each	TE Compliance
39	05 Leads ECG cable (02) each	TE Compliance
40	Reusable Helium Cylinder: initially filled by firm Qty 03 each	TE Compliance

41	Additional Batteries for transportation (02)	TE Compliance
42	Data cable for ECG and Pressure output wave form from external monitor to IABP and from IABP to external monitor (01) each.	TE Compliance
43	Clinical training of user /Technical Training from manufacturer.	TE Compliance
44	05 Years warranty with free service and parts after installation and 10 years part availability.	TE Compliance
45	With complete set of accessories	TE Compliance
	REMARKS	**TA**

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